

Fig.1

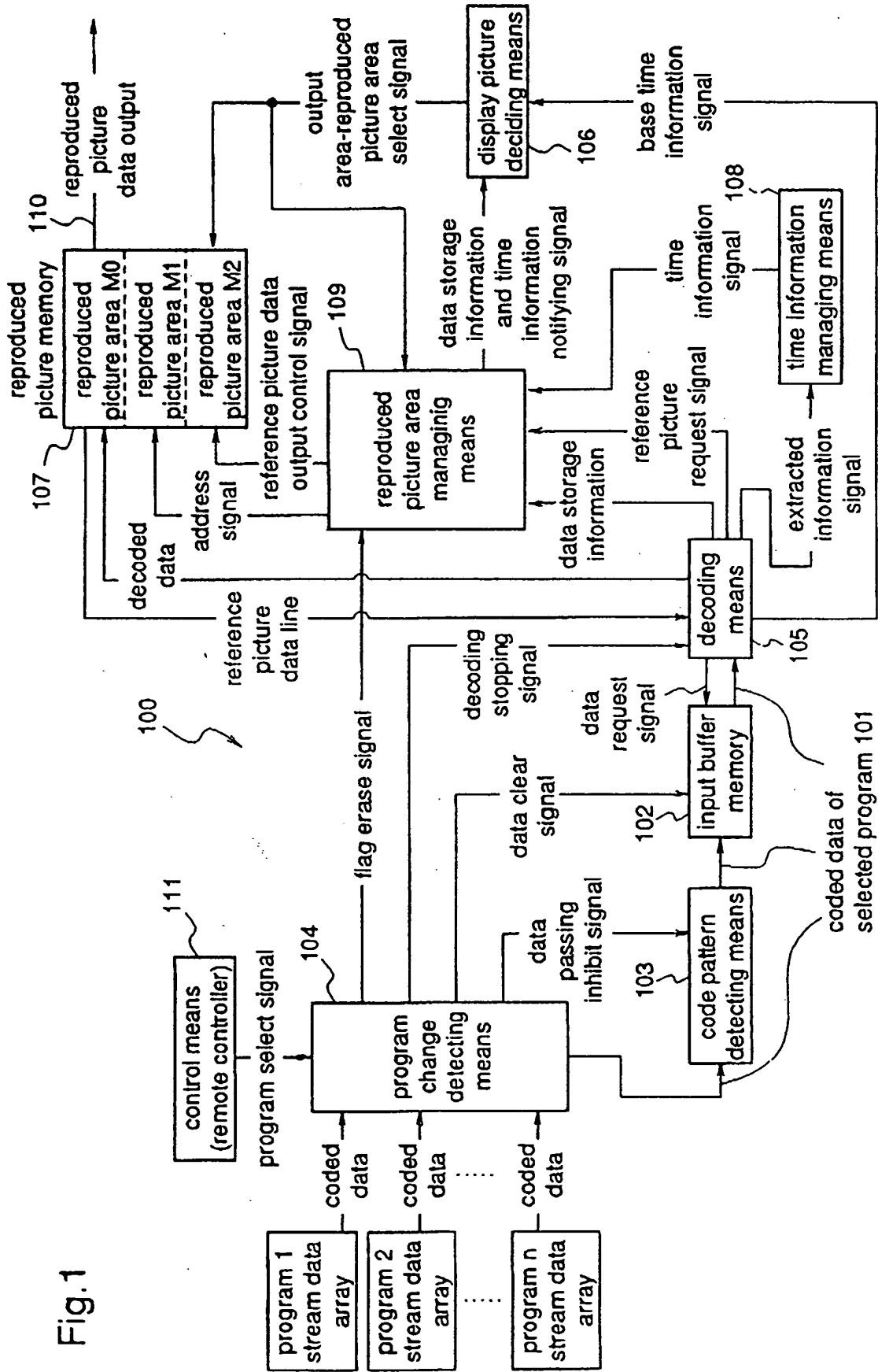


Fig.2

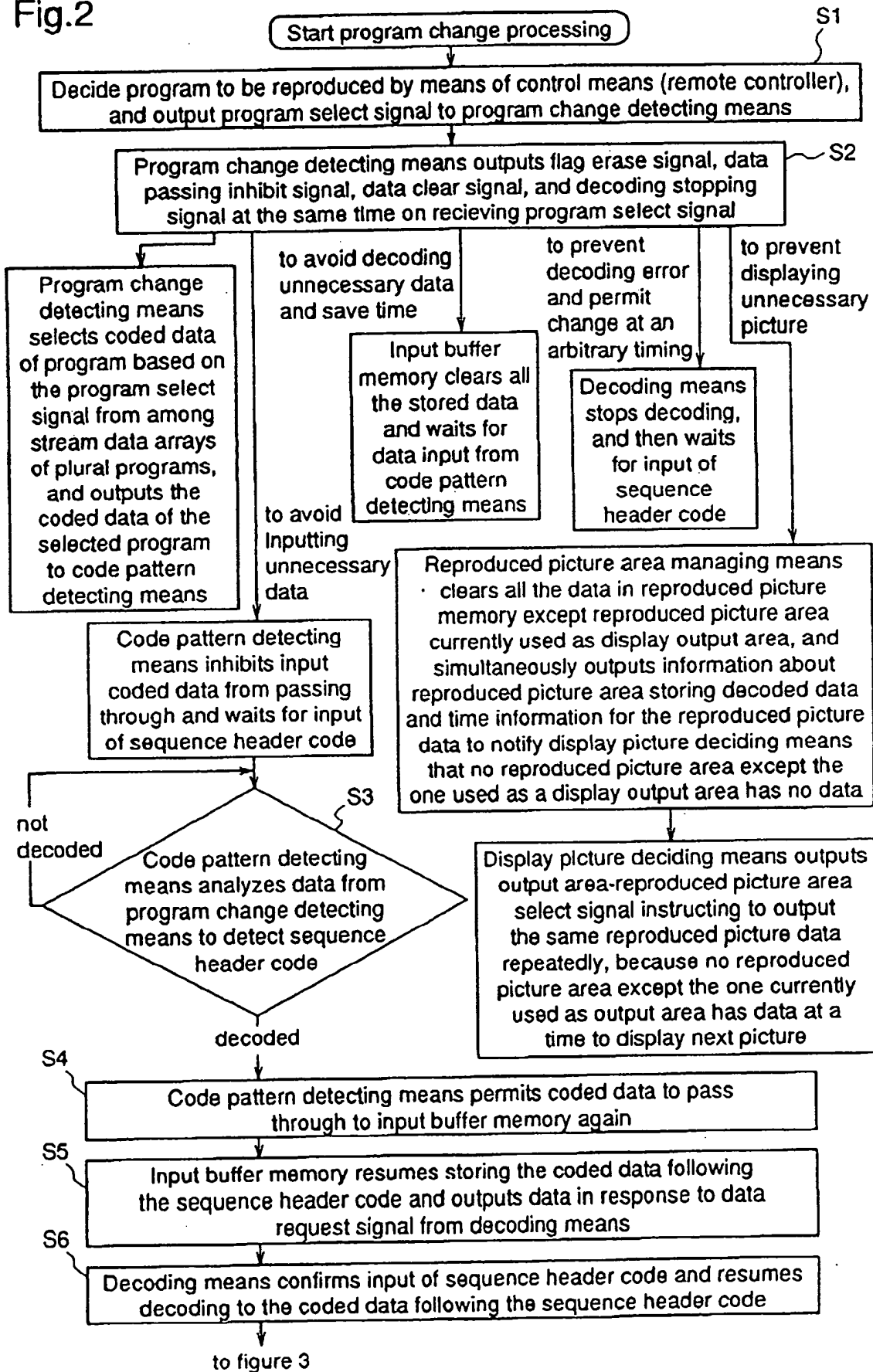


Fig.3

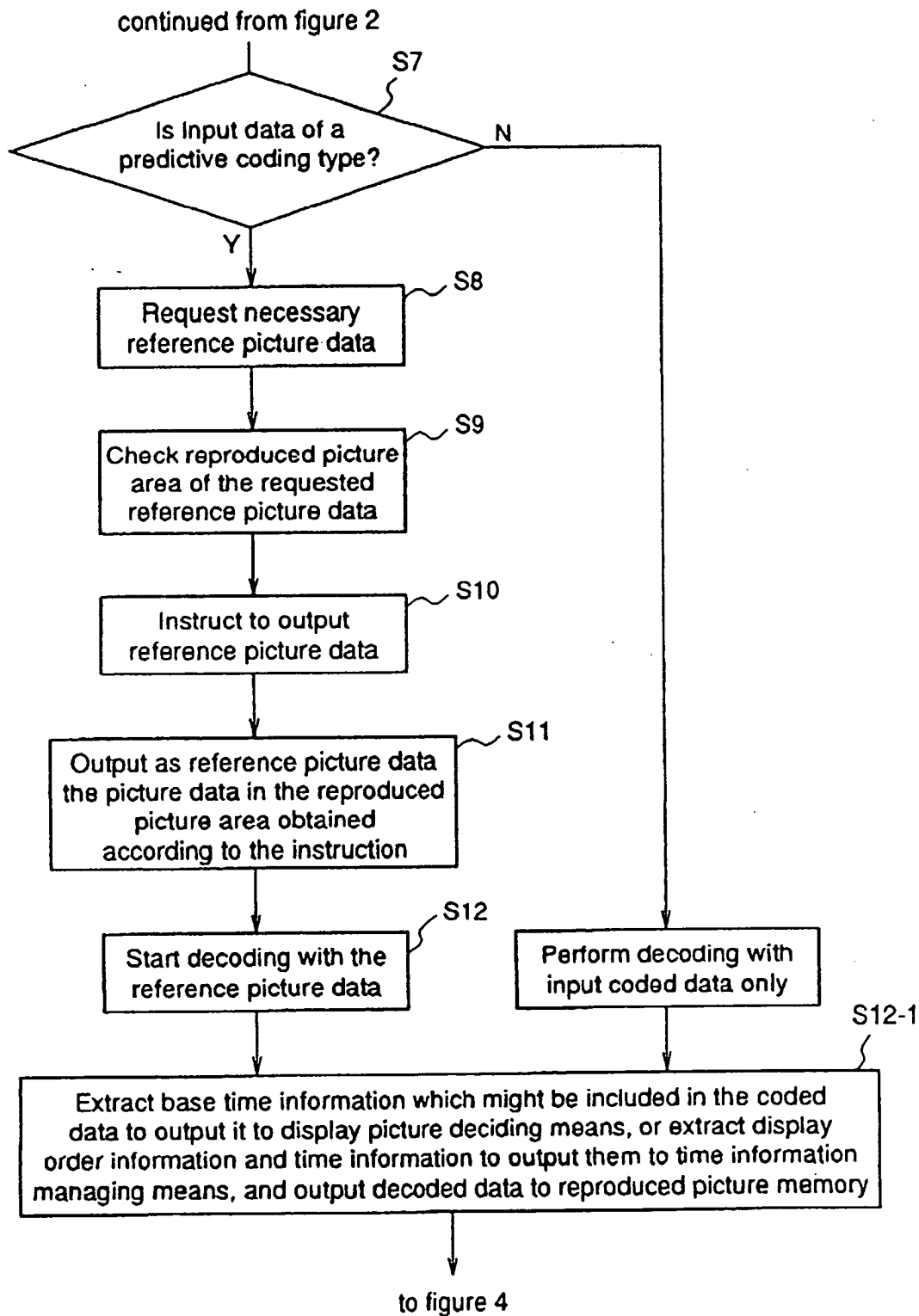
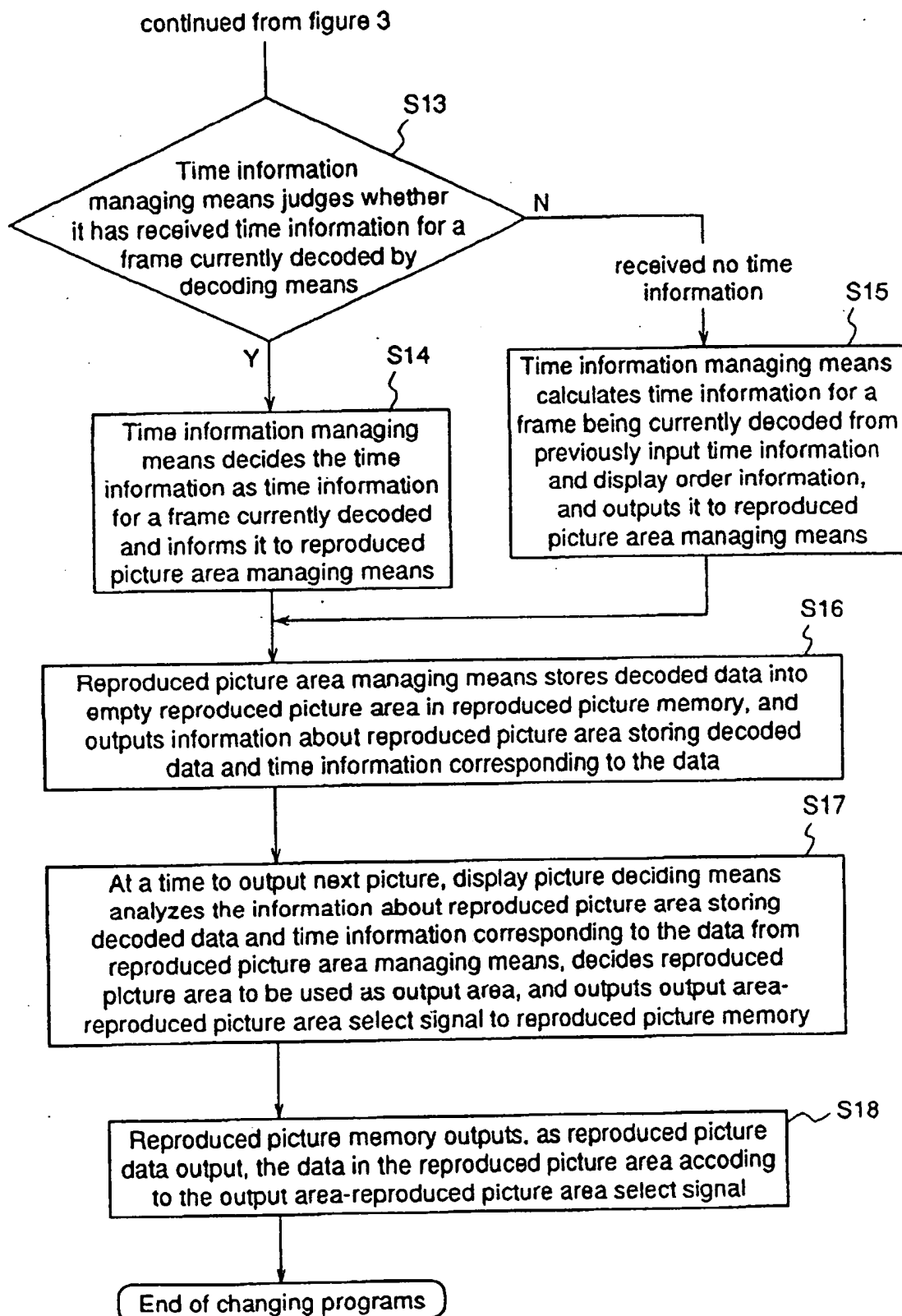


Fig.4



The diagram illustrates the relationship between three different sequences of video frames:

- structure of input coded data:** A sequence of frames labeled SH, GOP, SH, GOP, SH, GOP, SH, GOP, SH, GOP, followed by an ellipsis.
- structure of GOP data (picture decoding order):** A sequence of frames starting with I0, followed by P6, B1, B2, B3, B4, B5, P12, B7, B8, B9, B10, B11, P18, B13, B14, B15, B16, followed by an ellipsis.
- display order of pictures:** A sequence of frames labeled I0, B1, B2, B3, B4, B5, P6, B7, B8, B9, B10, B11, P12, B13, B14, B15, B16, followed by an ellipsis.

A horizontal arrow at the bottom indicates the progression of **(time)**.

Arrows show the mapping from the input coded data to the GOP data and from the GOP data to the display order. Specifically, the GOP data sequence is shown as a reordering of the input coded data sequence based on their temporal positions. The display order sequence is shown as a further reordering of the GOP data sequence to ensure sequential playback.

SH : Sequence Header  
 GOP : Group of Pictures  
 I : I picture  
 B : B picture  
 P : P picture  
 numerals such as I0 and P6 indicate  
 display order of corresponding pictures

Fig.6 Prior Art

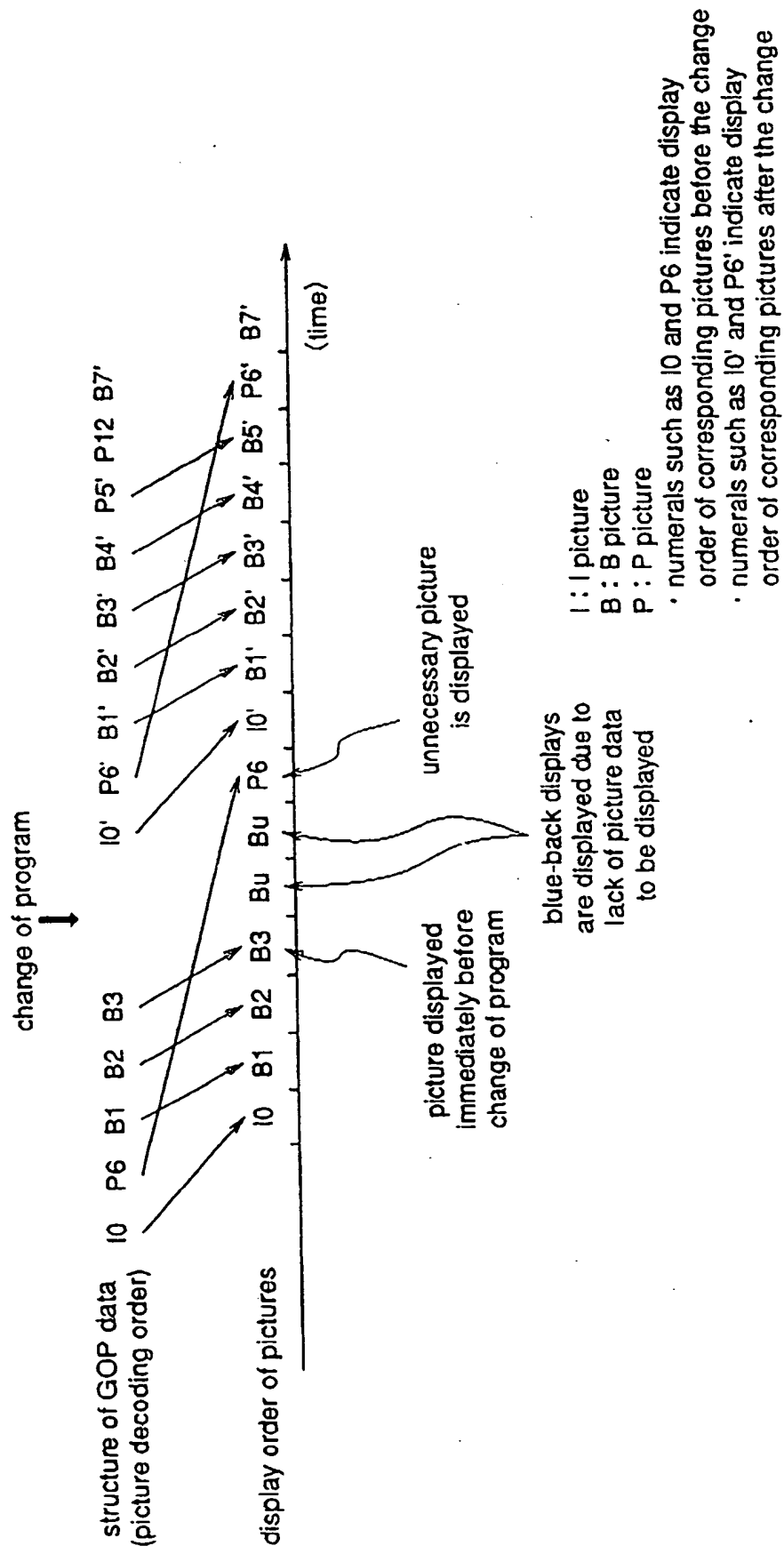
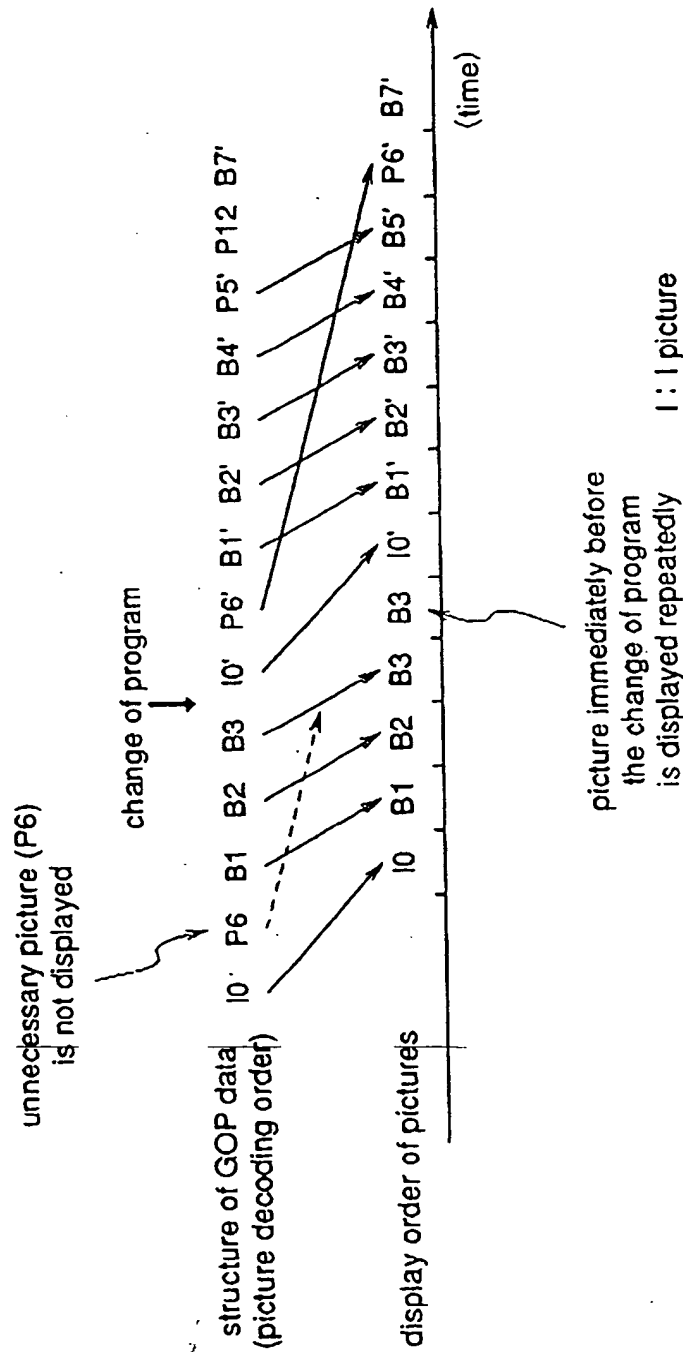


Fig.7



I : I picture  
B : B picture  
P : P picture

- numerals such as I0 and P6 indicate display order of corresponding pictures before the change
- numerals such as I0' and P6' indicate display order of corresponding pictures after the change

Fig.8 (a)

program is changed in  
the middle of decoding  
picture B3

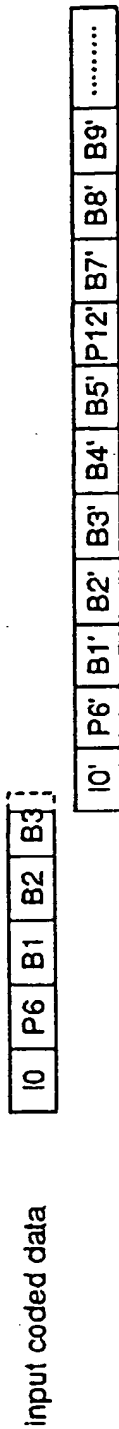


Fig.8 (b)

diagram illustrating a state  
of a data array which causes  
misconception in the  
conventional case

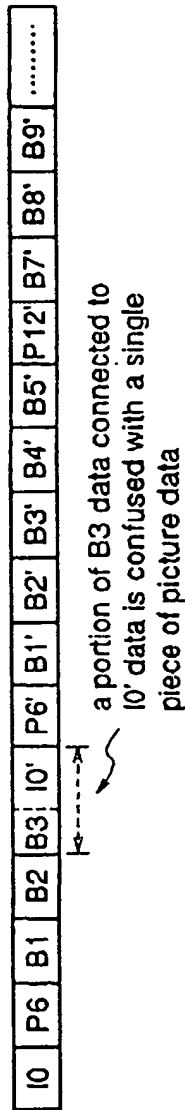


Fig.8 (c)

diagram illustrating a state  
of a data array which is  
recognized correctly

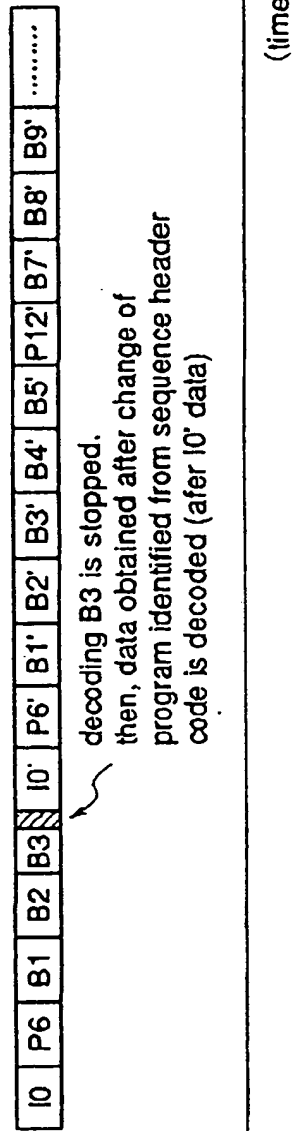




Fig.9 Prior Art

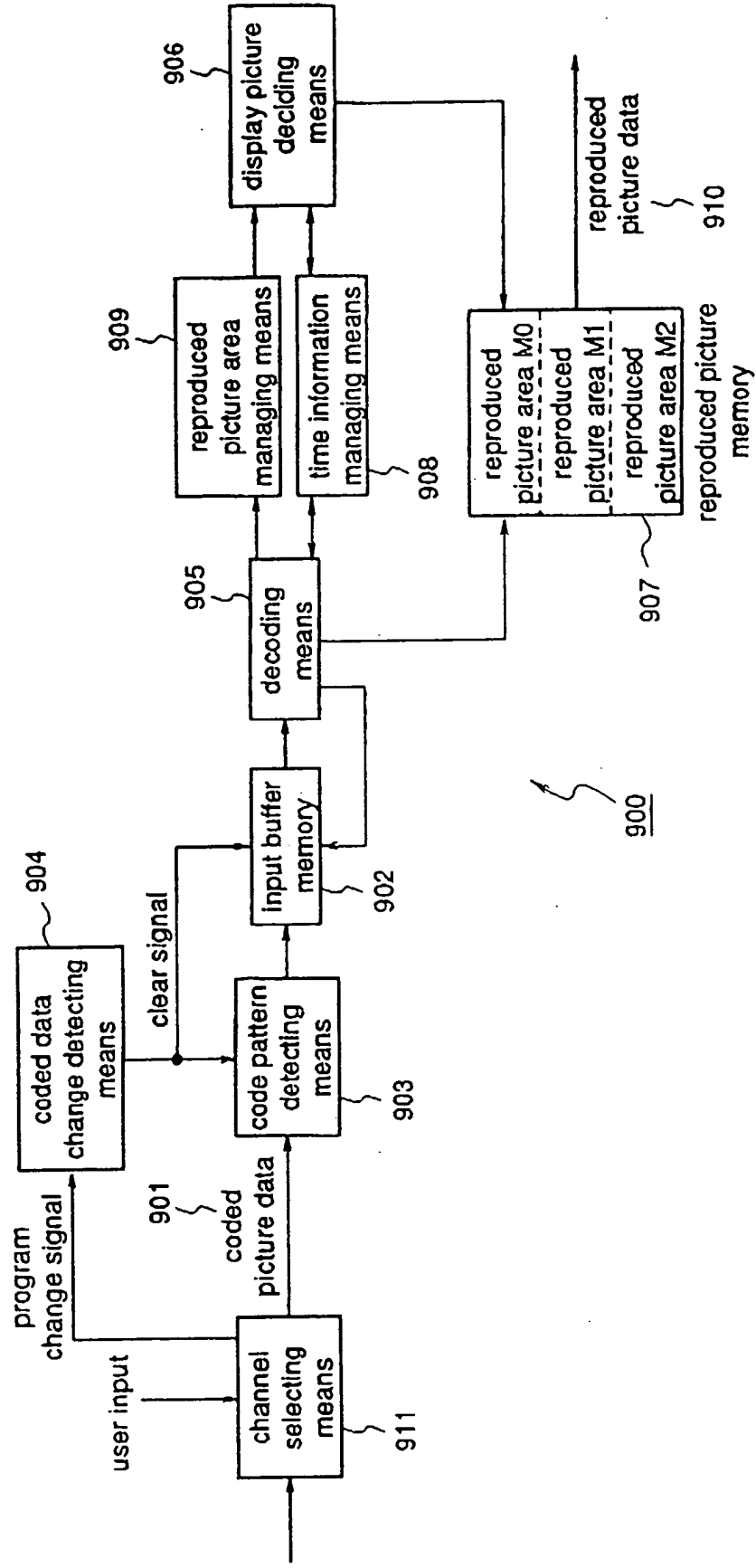


Fig.10

	reproduced picture area M0	reproduced picture area M1	reproduced picture area M2
data storage information	having data	having data	having no data
time information	time information	time information	no time information
area display information	already displayed	now displayed	not displayed

data storage information : information indicating which reproduced  
picture area stores decoded data  
time information : information indicating a time to display  
stored decoded data  
area display information : display information indicating the reproduced  
picture area from which data is output  
and now displayed